

ELECTRICIAN I

PURPOSE AND NATURE OF WORK

This is skilled electrical work involved in installing, checking, and repairing plant electrical systems and equipment. Tasks are performed in accordance with standard trade practices. Assignments are made in the form of written or oral instructions and may be accompanied by sketches and blueprints; however, work also arises out of inspections and troubleshooting. Ordinarily, routine work is performed independently; close supervision is received on difficult or unusual problems. All work is subject to inspection while in progress or upon completion.

This class may be used for training employees for the more complex work performed by Electrician II. However, not all positions assigned to this class are trainee positions.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Keeps electrical equipment such as wiring, motors, batteries, switches, and electrical mechanisms in repair and good operating condition. Replaces defective wiring, runs conduit, and makes connections to new plant electrical installations. Replaces burned out fuses and small parts on motors; cleans and oils motors. Makes new installations of fixtures, motors, and other electrical equipment. Installs and maintains wiring connections on control panels, fans, motors, generators, starting devices for pumps, and metering devices. Tests the installation of equipment using meters to determine insulation resistance. Keeps appropriated records on equipment.

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Knowledge of the standard practices, materials, tools, and equipment of the electrical trade.

Knowledge of the occupational hazards and safety precautions of the trade.

Some knowledge of a wide variety of mechanical and electrical systems, equipment, and control devices.

Ability to understand and follow oral and written instructions, and to read and interpret blueprints, sketches, and diagrams.

Ability to locate and adjust defects in electrical systems, equipment, and control devices.

Ability to maintain records and prepare simple reports.

Ability to develop and maintain effective working relationships with superiors and other employees.

Skill in the use and care of tools and equipment of the electrical trade.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from high school supplemented by vocational technical school training, and experience in electrical work which included troubleshooting and working with high voltage electricity; or any equivalent combination of training and experience.